

BIBLIOGRAPHY OF BOTANICAL PAPERS PUBLISHED
IN SYESIS 1 (1968) - 17 (1984)

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INTRODUCTION

Syesis was a multidisciplinary journal published by the British Columbia Provincial Museum from 1968 to 1984. It was established as a centennial project to fill the need for a regional journal for publishing scholarly papers dealing with both natural and human history in British Columbia and the Pacific Northwest. Longer papers were published in Supplements.

The scope of Syesis was very wide. The journal published articles on subjects ranging from geomorphology (e.g. tidal wave warning systems) through biology, archaeology, and linguistics to medical problems (e.g. the attrition of teeth). An important factor in the moulding of Syesis was the selection of the editor. The first editor of Syesis was Dr. Robert F. Scagel, a specialist in marine algae at the University of British Columbia in Vancouver. Under his editorship, from 1968 to 1975, Syesis developed into a journal which was very strong in botany and especially phycology. In 1976 Dr. Gilbert C. Hughes, a mycologist at the University of British Columbia, became the second editor of Syesis. The journal retained its original character. From the first issue to the last Syesis was an excellent regional botanical journal. Among the other biological disciplines, only ichthyological and ornithological papers were relatively well represented. In 1973 Ecology of western North America, a series edited by Drs. V.J. Krajina and R.C. Brooke and published by the University of British Columbia, was merged with Syesis. This merger brought several important vegetation studies to Syesis and further strengthened its botanical character.

In its seventeen volumes Syesis published 175 papers dealing with various botanical disciplines (phycology 74, mycology 22, bryology & lichenology 10, vascular plants & floristics 32, plant ecology 19, paleobotany & palynology 5, ethnobotany 8, bibliography & obituaries 5). Nine new genera, 34 new species, one new name and 31 new nomenclatural combinations of algae and fungi and two new varieties and one new form of vascular plants were published in Syesis.

Editorial difficulties and financial constraints led to a highly irregular publication schedule, with long intervals between volumes. High quality glossy paper was replaced with cheaper, but still acceptable paper. Nevertheless the cost of publishing remained high. There were also serious problems with the marketing of Syesis. The multidisciplinary nature of the journal made the content of individual volumes unpredictable and deterred

potential subscribers. The irregular publication schedule, on the other hand, deterred potential contributors.

In 1985 the British Columbia Provincial Museum decided to stop publication of Syesis and to replace it with the Contributions series. Three Contributions series (Contributions in Natural Science, Contributions in Human History and Contributions in Museum Studies) will publish individual papers with the priority given to the employees and research associates of the British Columbia Provincial Museum, but papers from workers outside the Museum will also be considered. Editorial control for these series will be the responsibility of the General Publications Committee of the British Columbia Provincial Museum (for more information see Barkley, W.D. 1985. The end of an experiment. Syesis 17:1,2.).

The first section of this bibliography lists botanical papers published in Syesis and its Supplements from issue 1 (1968) to issue 17 (1984). It is divided into major parts according to major specializations. The divisions are broad, and there is no overlap in citations. The second section provides a list of new plant taxa or new names published in Syesis. Publication dates of Syesis and its Supplements are given in the Appendix.

PHYCOLOGY, MARINE AND FRESHWATER ALGAE

- Abbott, I.A. 1970. On some new records of marine algae from Washington State. Syesis 3: 1-4.
- Abbott, I.A. 1972. On the species of Iridaea (Rhodophyta) from the Pacific coast of North America. Syesis 4: 51-72.
- Boney, A.D. 1979. Audouinella bonnemaisoniae (Batt.) Dixon in Bonnemaisonia nootkana (Esper) Silva; in situ and in vitro studies. Syesis 11: 65-71.
- Bird, C.J., D. Garbary, and G.I. Hansen. 1982. Observations on Ptilothamnionopsis lejolisea (Farl.) Dix. (Ceramiaceae, Rhodophyta) in northwestern North America. Syesis 14: 109-113.
- Calvin, N.I. 1977. A qualitative description of the intertidal plants and animals of Berners Bay, southeastern Alaska. Syesis 10: 11-24.
- Chapman, A.R.O. 1972. Morphological variation and its taxonomic implications in the ligulate members of the genus Desmarestia occurring on the west coast of North America. Syesis 5: 1-20.
- Chen, L.C.-M. and J. McLachlan. 1980. Rhodoglossum affine (Harv.) Kylin (Gigartinales, Rhodophyta) in culture. Syesis 12: 113-116.
- Chihara, M. 1969. Field, culturing and taxonomic studies of Ulva fenestrata P. & R. and Ulva scagelii sp. nov. (Chlorophyceae) in British Columbia and northern Washington. Syesis 1: 87-102.
- Cole, K. and Lin, S.-C. 1969. The ecology of Leathesia difformis, I. Fine structure of vegetative cells in field and cultured material. Syesis 1: 103-119.
- Conway, E. 1976. Porphyra maculosa sp. nov. in British Columbia. Syesis 8: 317-320.
- Conway, E., T.F. Mumford, Jr., and R.F. Scagel. 1976. The genus Porphyra in British Columbia and Washington. Syesis 8: 185-244.

- de Wreede, R.E. 1979. Phenology of Sargassum muticum (Phaeophyta) in the Strait of Georgia, British Columbia. Syesis 11: 1-9.
- Edelstein, T. 1972. On the taxonomic status of Gloiosiphonia californica (Farlow) J. Agardh (Cryptonemiales, Gloiosiphoniaceae). Syesis 5: 227-234.
- Ellis, R.J. and N.I. Calvin. 1983. Observations on the 1975 year class of Laminaria groenlandica and incidental ecological observations, southeastern Alaska, 1975-80. Syesis 15: 1-6.
- Foreman, R.E., S.C. Lindstrom, and J.L. Celestino. 1973. New records of marine algae in British Columbia. Notes. Syesis 6: 267-268.
- Fralick, J.E. and K. Cole. 1973. Cytological observations on two species of Iridaea (Rhodophyceae, Cigartinales). Notes. Syesis 6: 271-272.
- Garbary, D.J., L. Golden, and R.F. Scagel. 1983. Capsosiphon fulvescens (Capsosiphonaceae, Chlorophyta), rediscovered in the northeastern Pacific. Syesis 15: 39-42.
- Garbary, D.J., G.I. Hansen, and R.F. Scagel. 1981. The marine algae of British Columbia and Northern Washington: division Rhodophyta (red algae), class Bangiophyceae. Syesis 13: 137-195.
- Garbary, D.J., G.I. Hansen, and R.F. Scagel. 1983. The marine algae of British Columbia and northern Washington: division of Rhodophyta (red algae), class Florideophyceae, orders Acrochaetiales and Nemaliales. Syesis 15 (Suppl. 1): 1-102.
- Garbary, D.J., G.I. Hansen, and R.F. Scagel. 1985. Additions to the marine algae of Barkley Sound, Vancouver Island, British Columbia. Syesis 17: 43-45.
- Green, R.B. 1980. Scale-bearing Chrysophyceae from seven lakes on Vancouver Island. Syesis 12: 155-162.
- Guiry, M.D. 1976a. An assessment of Palmaria palmata forma mollis (S. et G.) comb.nov. (= Rhodymenia palmata forma mollis S. et G.) in the eastern North Pacific. Syesis 8: 245-261.
- Guiry, M.D. 1976b. Halosacciocolax kjellmanii Lund parasitic on Palmaria palmata forma mollis (S. et G.) Guiry in the eastern North Pacific. Syesis 8: 113-117.
- Hansen, G.I., D.J. Garbary, J.C. Oliveira, and R.F. Scagel. 1982. New records and range extensions of marine algae from Alaska. Syesis 14: 115-123.
- Harlin, M.M. 1970. A phycological survey of Steamboat Island, Thurston County, Washington State. Syesis 2: 257-261.
- Hawkes, M.W. 1982. Porphyra nereocystis and P. thuretii (Rhodophyta): gametophyte morphology, distribution, and occurrence. Syesis 14: 97-108.
- Hawkes, M.W., C.E. Tanner, and P.A. Lebednik. 1979. The benthic marine algae of northern British Columbia. Syesis 11: 81-115.
- Hodgson, L.M. and J.R. Waaland. 1980. Seasonal variation in the subtidal macroalgae of Fox Island, Puget Sound, Washington. Syesis 12: 107-112.
- Hoham, R.W. 1973. Pleiomorphism in the snow alga, Rhaphidonema nivale Lagerh. (Chlorophyta), and a revision of the genus Rhaphidonema Lagerh. Syesis 6: 255-263.
- Hoham, R.W. 1975. New findings in the life history of the snow alga, Chlainomonas rubra (Stein et Brooke) comb. nov. (Chlorophyta, Volvocales). Syesis 7: 239-247.

- Hollenberg, G.J. 1970. New species of marine algae from Washington, U.S.A. *Syesis* 2: 163-169.
- Kristiansen, J. 1976. Chrysophyceae from Alberta and British Columbia. *Syesis* 8: 97-108.
- Lebednik, P.A. 1976. A new record of Chiharaea Johansen (Rhodophycophyta, Corallinaceae) from British Columbia. *Notes. Syesis* 8: 397.
- Lebednik, P.A. 1977. The Corallinaceae of northwestern North America. I. Clathromorphum Fossilie emend. Adey. *Syesis* 9: 59-112.
- Lindstrom, S.C. 1976. Records of some red algae occurring in southern southeast Alaska. *Notes. Syesis* 8: 403-404.
- Lindstrom, S.C. and N.I. Calvin. 1976. New records of marine algae from the Gulf of Alaska. *Notes. Syesis* 8: 405-406.
- Lindstrom, S.C. and R.E. Foreman. 1979. Seaweed associations of the Flat Top Islands, British Columbia: A comparison of community methods. *Syesis* 11: 171-185.
- Lindstrom, S.C. and R.F. Scagel. 1980. Some new distribution records of marine algae in southeast Alaska. *Syesis* 12: 163-168.
- Lindstrom, S.C. and M.J. Wynne. 1982. Tokidaea chilkatensis sp. nov. and T. serrata (Wynne) comb. nov. (Ceramiaceae, Rhodophyta) from Alaska. *Syesis* 14: 33-43. [See also *Syesis* 15: 70.]
- Lindstrom, S.C., M.J. Wynne, and N.I. Calvin. 1983. Pleonosporium pedicelatum sp. nov. and notes on Pleonosporium spp. (Rhodophyta, Ceramiaceae) from Alaska. *Syesis* 15: 57-62.
- Markham, J.W. 1969. Studies on the haptera of Laminaria sinclairii [sic!] (Harvey) Farlow, Anderson et Eaton. *Syesis* 1: 125-131.
- Markham, J.W. 1970. Vertical distribution of epiphytes on the stipe of Nereocystis luetkeana (Mertens) Postels and Ruprecht. *Syesis* 2: 227-240.
- Markham, J.W. and J.L. Celestino. 1977. Intertidal marine plants of Clatsop County, Oregon. *Syesis* 9: 253-266.
- Markham, J.W., D.L. McBride, and P.R. Newroth. 1972. New records of Rhodophyta in Oregon, British Columbia, and Alaska. *Notes. Syesis* 5: 285-286.
- Mumford, T.F., Jr. 1973. A new species of Porphyra from the west coast of North America. *Syesis* 6: 239-242.
- Mumford, T.F., Jr. 1976. Observations on the distribution and seasonal occurrence of Porphyra schizophylla Hollenberg, Porphyra torta Krishnamurthy, and Porphyra brumalis sp. nov. (Rhodophyta, Bangiales). *Syesis* 8: 321-332.
- Norris, J.N. and I.A. Abbott. 1972. Some new records of marine algae from the R/V Proteus cruise to British Columbia. *Syesis* 5: 87-94.
- Norris, R.E. and E. Conway. 1975. Fucus spiralis L. in the northeast Pacific. *Syesis* 7: 79-81.
- Norris, R.E. and G.J. Hollenberg. 1970. Notes on marine algae of Washington and southern British Columbia, IV. *Syesis* 2: 115-119.
- Norris, R.E. and M.J. Wynne. 1969. Notes on marine algae of Washington and southern British Columbia, III. *Syesis* 1: 133-146. [See also Errata in *Syesis* 3: 190.]
- Palmisano, J.F. and Y.-C.S. Sheng. 1977. Blade width of Laminaria longipes (Phaeophyceae, Laminariales) as an indicator of wave exposure. *Syesis* 10: 53-56.

- Rao, V.N.R. and J. Lewin. 1977. Benthic marine diatom flora of False Bay, San Juan Island, Washington. *Syesis* 9: 173-213.
- Scagel, R.F. 1970. Benthic algae of Bowie Seamount. *Syesis* 3: 15-16.
- Scagel, R.F. 1972. The brown alga Dictyota binghamiae J.Ag. from British Columbia and northern Washington. *Notes. Syesis* 4: 261-262.
- Scagel, R.F. 1973. Marine benthic plants in the vicinity of Bamfield, Barkley Sound, British Columbia. *Syesis* 6: 127-145.
- Scagel, R.F. and J.L. Celestino. 1970. First record of the brown alga Dictyoneuroopsis reticulata (Saunders) Smith from British Columbia. *Notes. Syesis* 3: 187.
- South, G.R. 1969. Intertidal marine algae from Gabriola Island, British Columbia. *Syesis* 1: 177-186.
- South, G.R. 1982. Wittrockiella paradoxa Wille (Chlorophyta, Cladophoraceae), new for the Pacific Coast of North America. *Syesis* 14: 93-95.
- Stein, J.R. 1976. Freshwater algae of British Columbia: the lower Fraser Valley. *Syesis* 8: 119-184.
- Stein, J.R. and C.A. Borden. 1980. Checklist of freshwater algae of British Columbia. *Syesis* 12: 3-39.
- Stein, J.R. and J.F. Gerrath. 1969. Freshwater algae of British Columbia: desmids of bog lakes in Coast Mountain area. *Syesis* 1: 187-197.
- Stein, J.R. and J.F. Gerrath. 1970. Freshwater algae of British Columbia: The Queen Charlotte Islands. *Syesis* 2: 213-226.
- Thom, R.M., J.W. Armstrong, C.P. Staude, K.K. Chew, and R.E. Norris. 1977. A survey of the attached marine flora at five beaches in the Seattle, Washington, area. *Syesis* 9: 267-275.
- Waaland, J.R. 1973. New records of red algae from Washington and British Columbia. *Notes. Syesis* 6: 269.
- Widdowson, T.B. 1972a. A statistical analysis of variation in the brown alga Alaria. *Syesis* 4: 125-143.
- Widdowson, T.B. 1972b. A taxonomic revision of the genus Alaria Greville. *Syesis* 4: 11-49.
- Widdowson, T.B. 1973. The marine algae of British Columbia and northern Washington: revised list and keys. Part I. Phaeophyceae (brown algae). *Syesis* 6: 81-96.
- Widdowson, T.B. 1975. The marine algae of British Columbia and northern Washington: revised list and keys. Part II. Rhodophyceae (red algae). *Syesis* 7: 143-186.
- Widdowson, T.B. and L.M. Coon. 1975. New records of maritime algae in British Columbia. *Syesis* 7: 139-141.
- Wollaston, E.M. 1972a. Antithamnion and related genera occurring in the Pacific coast of North America. *Syesis* 4: 73-92.
- Wollaston, E.M. 1972b. The genus Platythamnion J. Ag. (Ceramiaceae, Rhodophyta) on the Pacific coast of North America between Vancouver, British Columbia, and southern California. *Syesis* 5: 43-53.
- Wynne, M.J. 1970. Marine algae of Amchitka Island (Aleutian Islands). I. Delesseriaceae. *Syesis* 3: 95-144.
- Wynne, M.J., S.C. Lindstrom, and N.I. Calvin. 1983. Occurrence of Omphalophyllum ulvaceum Rosenv. (Phaeophyta, Pogotrichaceae) in the North Pacific. *Notes. Syesis* 15: 65-66.

Wynne, M.J., D.L. McBride, and J.A. West. 1973. Polyneuropsis stolonifera gen. et sp. nov. (Delesseriaceae, Rhodophyta) from the Pacific Coast of North America. *Syesis* 6: 243-253.

MYCOLOGY

- Anastasiou, C.J. and L.M. Churchland. 1969. An Olpidiopsis parasitic on a marine fungus. *Syesis* 1: 81-85.
- Bandoni, R.J. 1973. *Epistolae mycologicae* II. Species Platyglaea from British Columbia. *Syesis* 6: 229-232.
- Bandoni, R.J., J.R. Maze, and J.P. Delange. 1980. *Epistolae mycologicae* IX. Entorrhiza casparyana from British Columbia. *Syesis* 12: 105-106.
- Booth, T. 1970. Marine fungi from British Columbia: monocentric chytrids and chytridiaceous species from coastal and interior halomorphic soils. *Syesis* 2: 141-161.
- Booth, T. 1972. Occurrence and distribution of zoosporic fungi and some Actinomycetales in coastal soils of southwestern British Columbia and the San Juan Islands. *Syesis* 4: 197-208.
- Borden, J.H. and M. McClaren. 1970. Biology of Cryptoporus volvatus (Peck) Shear (Agaricales, Polyporaceae) in southwestern British Columbia: distribution, host species, and relationship with subcortical insects. *Syesis* 3: 145-154.
- Borden, J.H. and M. McClaren. 1972. Cryptoporus volvatus (Peck) Shear (Agaricales, Polyporaceae) in southwestern British Columbia: life-history, development, and arthropod infestation. *Syesis* 5: 67-72.
- Brough, S. and R. Bandoni. 1976. *Epistolae mycologicae* VI. Occurrence of Dacryonaema in British Columbia. *Syesis* 8: 301-303.
- Goos, R.D. and R.J. Bandoni. 1977. *Epistolae mycologicae* VII. Phialospore production by an isolate of Helicodendron triglitzense from British Columbia. *Syesis* 10: 121-123.
- Hämäläinen, L. 1972. Notes on Ustilago vujiickii Oudem. and Beijer. on some Luzula species in North America. *Syesis* 5: 83-85.
- Harling, J. and M. McClaren. 1970. The occurrence of Endogone macrocarpa in stomachs of Peromyscus maniculatus. *Syesis* 3: 155-159.
- Hibbits, J. 1979. Marine Eccliniales (Trichomycetes) found in crustaceans of the San Juan Archipelago, Washington. *Syesis* 11: 213-261.
- Hughes, G.C. 1970. Marine fungi from British Columbia: occurrence and distribution of lignicolous species. *Syesis* 2: 121-140.
- Hughes, G.C. 1973. *Epistolae mycologicae* III. Riessia semiophora Fresenius. *Syesis* 6: 233-238.
- Hughes, G.C. 1979. *Epistolae mycologicae* VIII. Indexes to Matsushima's Microfungi of the Solomon Islands and Papua-New Guinea (1971) and Icones microfungorum a Matsushima lectorum (1975). *Syesis* 11: 135-169.
- Kowalski, D.T. and A.A. Hinchee. 1972. Barbeyella minutissima: a common alpine myxomycete. *Syesis* 5: 95-97.
- Lester, R.J.G. 1975. Parasites of Gasterosteus aculeatus near Vancouver, British Columbia. *Syesis* 7: 195-200. [Saprolegnia parasitica and Saprolegnia sp.]
- Mishou, K.E. and E.F. Haskins. 1972. A survey of the Acrasieae in the soils of Washington State. *Syesis* 4: 179-184.

- Pugh, G.J.F. and G.C. Hughes. 1976. Epistolae mycologicae V. Keratinophilic fungi from British Columbia coastal habitats. *Syesis* 8: 297-300.
- Redhead, S.A. 1973. Epistolae mycologicae I. Some cyphelloid basidiomycetes from British Columbia. *Syesis* 6: 221-227. [See Errata *Syesis* 7: 265.]
- Redhead, S.A. 1975. Epistolae mycologicae IV. Valdensinia heterodoxa Peyr. (Sclerotiniaceae). *Syesis* 7: 235-238.
- Summerbell, R.C. and R.A. Cannings. 1982. Fungi and Brillia retifinis (Diptera, Chironomidae) in the decomposition of conifer leaves in a British Columbia stream. *Syesis* 14: 125-130.

BRYOLOGY AND LICHENOLOGY

- Bird, C.D. and C.E. Beil. 1973. Thrombium epigaeum (Pers.) Wallr. in North America. *Syesis* 6: 101-104.
- Bird, C.D. and R.D. Bird. 1973. Lichens of Saltspring Island, British Columbia. *Syesis* 6: 57-80.
- Christy, J.A. 1984. Bibliography of Oregon mosses. *Syesis* 16: 43-52.
- Funk, A. 1984. Szczawinskia, a new genus of the lichen-forming Coelomycetes. *Syesis* 16: 85-88.
- Goward, T. and W.B. Schofield. 1984. The lichens and bryophytes of Burns Bog, Fraser Delta, southwestern British Columbia. *Syesis* 16: 53-69.
- Hong, W.S. 1981. Hepaticae of the Kokanee Glacier Provincial Park, British Columbia, Canada. *Syesis* 13: 9-12.
- Krause, G. and W.B. Schofield. 1977. The moss flora of Lynn Canyon Park, North Vancouver, British Columbia. *Syesis* 10: 97-110.
- Schofield, W.B. 1969a. A checklist of Hepaticae and Anthocerotae of British Columbia. *Syesis* 1: 157-162.
- Schofield, W.B. 1969b. A selectively annotated checklist of British Columbia mosses. *Syesis* 1: 163-175.
- Schofield, W.B. 1977. Bryophytes of British Columbia III: habitat and distributional information for selected mosses. *Syesis* 9: 317-354.

VASCULAR PLANTS, FLORISTICS

- Barclay-Estrup, P. 1975. The distribution of Calluna vulgaris (L.) Hull in western Canada. *Syesis* 7: 129-137.
- Brayshaw, T.C. 1973a. The glabrous-fruited variety of Salix cascadiensis in British Columbia. *Syesis* 6: 47-50.
- Brayshaw, T.C. 1973b. The sandbar willow on Vancouver Island. *Syesis* 6: 147-152.
- Brooke, R.C., N.A.M. Verbeek, and J.W. Kirbyson. 1984. An annotated vascular flora of Mitlenatch Island, British Columbia. *Syesis* 16: 23-38.
- Chuang, C.-C. 1975. Lewisia tweedyi: a plant record for Canada. *Notes. Syesis* 7: 259-260.
- Darbyshire, S.J. 1985. Sporobolus airoides (Eragrostaceae: Poaceae) in British Columbia. *Syesis* 17: 11-12.
- Elliott, D.M. and I.E.P. Taylor. 1982. Abnormalities in germinants of red alder (Alnus rubra Bong.) seed. *Notes. Syesis* 14: 165-166.
- Grass, A.L. and L.E. Pavlick. 1981. Occurrence of a double-flowered variant of Salmonberry, Rubus spectabilis in British Columbia. *Notes. Syesis* 13: 205.

- Harrison, P.G. 1977. Zostera japonica (Aschers. & Graebn.) in British Columbia, Canada. Notes. Syesis 9: 359-360.
- Jamieson, D.W. 1980. Poa kelloggii Vasey, new for British Columbia. Notes. Syesis 12: 177.
- Janszen, H. 1977. Vascular plants of Saturna Island, British Columbia. Syesis 10: 85-96.
- Janszen, H. 1982. Vascular plants of Mayne Island, British Columbia. Syesis 14: 81-92.
- Krajina, V.J. 1969. Sarraceniaceae, a new family for British Columbia. Syesis 1: 121-124.
- Krause, D.L. and K.I. Beamish. 1973. Notes on Saxifraga occidentalis and closely related species in British Columbia. Syesis 6: 105-113.
- Lewicki, A. and P. Donahue. 1973. A catalogue of plant species from central British Columbia. Syesis 6: 183-192.
- Maze, J. 1972. Notes on the awn anatomy of Stipa and Oryzopsis (Gramineae). Syesis 5: 169-171.
- Maze, J. 1982. A preliminary study on the root of Oryzopsis hendersonii (Gramineae). Syesis 14: 151-153.
- McNeill, J. 1973. Lewisia triphylla (S. Watson) Robinson and Spraguea umbellata Torrey, new species for Canada. Syesis 6: 179-181.
- Olsen, S. 1981. Type locality for Boschniakia hookeri Walpers. Syesis 13: 5-8.
- Phillips, R.C. and R.F. Shaw. 1977. Zostera noltii Hornem. in Washington, U.S.A. Syesis 9: 355-358.
- Pojar, J. 1976a. Hummingbird flowers of British Columbia. Syesis 8: 25-28.
- Pojar, J. 1976b. Interesting angiosperms from Cathedral Lakes Park and the lower Skeena River. Notes. Syesis 8: 391.
- Pojar, J., K.I. Beamish, V.J. Krajina, and L.K. Wade. 1977. New records and range extensions of vascular plants in northern British Columbia. Syesis 9: 45-57.
- Randhawa, A.S. and K.I. Beamish. 1969. Sexual reproduction in Saxifraga ferruginea Graham. Syesis 1: 147-156.
- Revel, R.D. and K.I. Beamish. 1972. Liparis loeselii (L.) L.C. Rich., a new species for British Columbia. Notes. Syesis 5: 287.
- Revel, R.D. and J.R. Maze. 1972. The central portion of the Hope Landslide: a botanical census. Syesis 5: 131-135.
- Reynolds, J.D. and S.C.P. Reynolds. 1976. Aquatic angiosperms of some British Columbia saline lakes. Syesis 8: 291-295.
- Sparks, L.H., R. del Moral, A.F. Watson, and A.R. Kruckeberg. 1977. The distribution of vascular plant species on Sergief Island, southeast Alaska. Syesis 10: 1-9.
- Taylor, R.L. 1980. Taxonomic recognition and occurrence of Petasites japonicus (Asteraceae) in the Pacific Northwest. Syesis 12: 57-61.
- Taylor, R.L. and S. Taylor. 1977. Chromosome numbers of vascular plants of British Columbia. Syesis 10: 125-138. [See Correction in Syesis 11: 287.]
- Taylor, T.M.C. and A.F. Szczawinski. 1975. Trillium ovatum Pursh forma hibbersonii Taylor et Szczawinski f.nov. Notes. Syesis 7: 250.
- Tucker, J.M. and J.R. Maze. 1973. The Revelstoke oaks. Syesis 6: 41-46.

PLANT ECOLOGY, VEGETATION, CONSERVATION

- Bayer, R.D. 1980. Intertidal zonation of Zostera marina in the Yaquina Estuary, Oregon. *Syesis* 12: 147-154.
- Beil, C.E. 1975. Forest associations of the southern Cariboo Zone, British Columbia. *Syesis* 7: 201-233.
- Brayshaw, T.C. 1970. The dry forests of southern British Columbia. *Syesis* 3: 17-43.
- Daubenmire, R. 1976. An ecological life-history of Lewisia rediviva (Portulacaceae). *Syesis* 8: 9-23.
- del Moral, R. 1975. Species patterns in the Upper North Fork Teanaway River drainage, Wenatchee Mountains, Washington. *Syesis* 7: 13-30.
- del Moral, R., A.F. Watson, and R.S. Flaming. 1977. Vegetation structure in the Alpine Lakes region of Washington State: classification of vegetation on granitic rocks. *Syesis* 9: 291-316.
- Fuller, W.A. 1973. The Conservation of Terrestrial Communities Programme in Canada. *Syesis* 6: 11-16.
- Given, D.R. and J.H. Soper. 1976. Pioneer vegetation on moraines near Clachnacudainn Snowfield, British Columbia. *Syesis* 8: 349-354.
- Hämet-Ahti, L. 1979. Timberline meadows in Wells Gray Park, British Columbia, and their comparative geobotanical interpretation. *Syesis* 11: 187-211.
- Hebda, R.J. and W.G. Biggs. 1982. The vegetation of Burns Bog, Fraser Delta, southwestern British Columbia. *Syesis* 14: 1-20.
- Hoefs, M., I. McT. Cowan, and V.J. Krajina. 1976. Phytosociological analysis and synthesis of Sheep Mountain, southwest Yukon Territory, Canada. *Syesis* 8 (Suppl.1): 125-228.
- Kellman, M.C. 1970. Plant species interrelationships in a secondary succession in coastal British Columbia. *Syesis* 2: 201-212.
- Kojima, S. and V.J. Krajina. 1976. Vegetation and environment of the coastal western hemlock zone in Strathcona Provincial Park, British Columbia, Canada. *Syesis* 8 (Suppl.1): 1-123.
- Krajina, V.J. 1973. The conservation of natural ecosystems in British Columbia. *Syesis* 6: 17-31.
- Kruckeberg, A.R. 1970. Plant life on serpentinite and other ferromagnesian rocks in northwestern North America. *Syesis* 2: 15-114.
- Manuwal, N.J. 1980. Vegetation of the Barren Islands, Alaska. *Syesis* 12: 131-146.
- North, M.E.A. and J.M. Treversham. 1985. The vegetation of the floodplains of the lower Fraser, Serpentine and Nicomekl Rivers, 1859 to 1890. *Syesis* 17: 47-66, + 1 map.
- Robinson, B., M.C. Feller, and K. Klinka. 1983. Four common mosses as indicators of forest floor acidity in the Coastal Western Hemlock Zone of southwestern British Columbia. *Syesis* 15: 17-23.
- Selby, C.J. and M.D. Pitt. 1985. Classification and distribution of alpine and subalpine vegetation in the Chilcotin Mountains of southern British Columbia. *Syesis* 17: 13-41.

PALEOBOTANY, PALYNOLOGY, TREE RING CHRONOLOGY

- Donahue, P.F. and T. Habgood. 1975. Analysis of the pollen and spore rain at two archaeological sites on the Nechako Plateau, British Columbia. *Syesis* 7: 93-99.
- Hebda, R.J. and G.E. Rouse. 1980. Palynology of two Holocene cores from the Hesquiat Peninsula, Vancouver Island, British Columbia. *Syesis* 12: 121-129.
- Mathewes, R.W. 1981. Pollen evidence for the presence of Tall Jacob's-ladder (*Polemonium caeruleum* L.) on the Queen Charlotte Islands during late-glacial time. *Syesis* 13: 105-108.
- Mathewes, R.W. and R.C. Brooke. 1972. Fossil Taxodiaceae and new angiosperm macrofossils from Quilchena, British Columbia. *Syesis* 4: 209-216.
- Parker, M.L. 1977. Improving tree-ring dating in northern Canada by X-ray densitometry. *Syesis* 9: 163-172.

ETHNOBOTANY, USE OF PLANTS

- Brough, S.G. 1985. Dye characteristics of British Columbia forest lichens. *Syesis* 17: 81-94.
- Harris, B. and L. Hrubant. 1972. Plant and animal names of Indian origin in British Columbia. *Syesis* 4: 223-225.
- Meilleur, B.A. 1980. Speculations on the diffusion of *Nicotiana quadrivalvis* Pursh to the Queen Charlotte Islands and adjacent Alaskan mainland. *Syesis* 12: 101-104.
- Palmer, G. 1976. Shuswap Indian ethnobotany. *Syesis* 8: 29-81.
- Turner, N.J. 1973. The ethnobotany of the Bella Coola Indians of British Columbia. *Syesis* 6: 193-220.
- Turner, N.J. 1974. Plant taxonomic systems and ethnobotany of three contemporary Indian groups of the Pacific Northwest (Haida, Bella Coola, and Lillooet). *Syesis* 7 (Suppl.1): 1-104.
- Turner, N.J. and R.L. Taylor. 1972. A review of the Northwest Coast tobacco mystery. *Syesis* 5: 249-257.
- Williams, M.D. 1980. The harvesting of "sluckus" (*Porphyra perforata*) by the Straits Salish Indians of Vancouver Island, British Columbia. *Syesis* 12: 63-69.

BIBLIOGRAPHY, OBITUARIES, COLLECTIONS

- Brayshaw, T.C. 1984. Thomas Mayne Cunningham Taylor (1904-1983). *Syesis* 16: 1-3.
- MacBryde, B. 1975. Bibliographical history of the botanical handbooks of the British Columbia Provincial Museum. *Notes*. *Syesis* 7: 255-258.
- Newnham, S. 1980. Ching-Chang Chuang (1931-76). *Syesis* 12: 1-2.
- Peden, A.E. and G. Green. 1982. Primary type specimens of animals and plants in the British Columbia Provincial Museum. *Syesis* 14: 155-162.
- Szczawinski, A.F. 1970. J.W. Eastham (1879-1968). *Syesis* 2: 265.

NEW TAXA AND NEW COMBINATIONS PUBLISHED IN SYESIS

- Alacrinella sanjuanensis Hibbits, *Syesis* 11: 252. 1979. [sp. nov.]
Alaria paradisea (Miyabe et Nagai) Widdowson, *Syesis* 4: 38. 1972.
[comb. nov.]
Antithamnionella glandulifera (Kylin) Wollaston, *Syesis* 4: 86. 1972.
[comb. nov.]
Antithamnionella pacifica (Harvey) Wollaston, *Syesis* 4: 87. 1972.
[comb. nov.]
Antithamnionella pacifica var. uncinata (Gardner) Wollaston, *Syesis* 4: 88.
1972. [comb. nov.]
Arundinula haplogaster Hibbits, *Syesis* 11: 234. 1979. [sp. nov.]
Arundinula washingtonensis Hibbits, *Syesis* 11: 228. 1979. [sp. nov.]
Asterocolax hypophyllophila Wynne, *Syesis* 3: 131,132. 1970. [sp. nov.]
Astreptonema pacificum Hibbits, *Syesis* 11: 248. 1979. [sp. nov.]
Audouinella amphiroae (Drew) Garbary in Hansen, Garbary, Oliveira & Scagel,
Syesis 14: 117. 1982. [comb. nov.]
Audouinella arcuata (Drew) Garbary, Hansen & Scagel, *Syesis* 15(Suppl.1): 12.
1983. [comb. nov.]
Audouinella coccinea (Drew) Garbary, Hansen & Scagel, *Syesis* 15(Suppl.1):
16. 1983. [comb. nov.]
Audouinella desmarestiae (Kylin) Garbary, Hansen & Scagel, *Syesis*
15(Suppl.1): 24. 1983. [comb. nov.]
Audouinella erythrophylla (Jao) Garbary, Hansen & Scagel, *Syesis*
15(Suppl.1): 27. 1983. [comb. nov.]
Audouinella hirsuta (Drew) Garbary Hansen & Scagel, *Syesis* 15(Suppl.1): 29.
1983. [comb. nov.]
Audouinella macounii (Collins) Garbary Hansen & Scagel, *Syesis* 15(Suppl.1):
30. 1983. [comb. nov.]
Audouinella plumosa var. variabile (Drew) Garbary, Hansen & Scagel, *Syesis*
15(Suppl.1): 42. 1983. [stat. & comb. nov.]
Audouinella proskaueri (West) Garbary in Garbary, Hansen & Scagel, *Syesis*
15(Suppl.1): 45. 1983. [comb. nov.]
Audouinella simplex (Drew) Garbary, Hansen & Scagel, *Syesis* 15(Suppl.1): 51.
1983. [comb. nov.]
Audouinella vaga (Drew) Garbary, Hansen & Scagel, *Syesis* 15(Suppl.1): 61.
1983. [comb. nov.]
Audouinella vaga var. implicata (Drew) Garbary, Hansen & Scagel, *Syesis*
15(Suppl.1): 63. 1983. [comb. nov.]
Blyttiomycetes aureus Booth, *Syesis* 2: 142. 1970. [sp. nov.]
Chlainomonas rubra (Stein et Brooke) Hoham, *Syesis* 7: 245. 1975.
[comb. nov.]
Clathromorphum nereostratum Lebednik, *Syesis* 9: 79,80. 1977. [sp. nov.]
Empselium Hansen et Scagel in Garbary, Hansen & Scagel, *Syesis* 13: 150.
1981. [gen. nov.]
Empselium rubrum Hansen & Scagel in Garbary, Hansen & Scagel, *Syesis* 13:
151. 1981. [sp. nov.]
Enteropogon Hibbits, *Syesis* 11: 222. 1979. [gen. nov.]

- Enteropogon sexuale Hibbits, Syesis 11: 222,223. 1979. [sp. nov.]
- Erythrodermis pacifica Hollenberg, Syesis 2: 166,167. 1970. [sp. nov.]
- Hildebrandia sanjuanensis Hollenberg, Syesis 2: 165. 1970. [sp. nov.]
- Hollenbergia Wollaston, Syesis 4: 81. 1972. [gen. nov.]
- Hollenbergia nigricans (Gardner) Wollaston, Syesis 4: 83. 1972. [comb. nov.]
- Hollenbergia sub[ul]lata (Harv.) Wollaston, Syesis 4: 81. 1972. [comb. nov.]
- Holmkioldia quilchenensis Mathewes et Brooke, Syesis 4: 215. 1972. [sp. nov.]
- Hypophyllum dentatum Wynne, Syesis 3: 129. 1970. [sp. nov.]
- Iridaea cordata var. splendens (Setchell & Gardner) Abbott, Syesis 4: 55. 1972. [comb. nov.]
- Laingia aleutica Wynne, Syesis 3: 103. 1970. [sp. nov.]
- Leptospaeria australiensis (Cribb & Cribb) Hughes, Syesis 2: 132. 1970. [comb. nov.]
- Nienburgia prolifera Wynne, Syesis 3: 115. 1970. [sp. nov.]
- Nitophyllum northii Norris & Wynne, Syesis 1: 141. 1969. [sp. nov. as N. nottii - orthographic change in Syesis 3: 190. 1970.]
- Olpidiopsis globosa Anastasiou et Churchland, Syesis 1: 81. 1969. [sp. nov.]
- Palmaria palmata f. mollis (S. et G.) Guiry, Syesis 8: 258. 1976. [comb. nov.]
- Phycodrys amchitkensis Wynne, Syesis 3: 113. 1970. [sp. nov.]
- Phycodrys isabellae Norris et Wynne, Syesis 1: 144. 1969. [sp. nov.]
- Platythamnion recurvatum Wollaston, Syesis 5: 51,52. 1972. [sp. nov.]
- Pleonosporium pedicellatum Lindstrom, Wynne & Calvin, Syesis 15: 57,58. 1983. [sp. nov.]
- Polyneuropsis Wynne, McBride & West, Syesis 6: 247. 1973. [gen. nov.]
- Polyneuropsis stolonifera Wynne, McBride & West, Syesis 6: 248. 1973. [sp. nov.]
- Porphyra brumalis Mumford, Syesis 8: 328. 1976. [sp. nov.]
- Porphyra kanakaensis Mumford, Syesis 6: 239. 1973. [sp. nov.]
- Porphyra maculosa Conway, Syesis 8: 317. 1976. [sp. nov.]
- Pterosiphonia gardneri Hollenberg, Syesis 2: 168. 1970. [sp. nov.]
- Raphidonema corconticum (Hind.) Hoham, Syesis 6: 262. 1973. [comb. nov.]
- Raphidonema cryophyllum Hoham, Syesis 6: 262. 1973. [nom. nov.]
- Raphidonema planctonicum (Hind.) Hoham, Syesis 6: 262. 1973. [comb. nov.]
- Raphidonema sessile (Deas.) Hoham, Syesis 6: 262. 1973. [comb. nov.]
- Raphidonema stagnale (Hind.) Hoham, Syesis 6: 262. 1973. [comb. nov.]
- Rhodoglossum californicum (J.Ag.) Abbott, Syesis 4: 70. 1972. [comb. nov.]
- Rhodoglossum minimum Hollenberg, Syesis 2: 166. 1970. [sp. nov.]
- Salix cascadensis Cockerell var. thompsonii Brayshaw, Syesis 6: 47. 1973. [var. nov.]
- Salix sessilifolia Nutt. var. vancouverensis Brayshaw, Syesis 6: 146. 1973. [var. nov.]
- Scagelia Wollaston, Syesis 4: 88. 1972. [gen. nov.]
- Scagelia occidentalis (Kyllin) Wollaston, Syesis 4: 89. 1972. [comb. nov.]
- Scagelonema Norris et Wynne, Syesis 1: 139. 1969. [gen. nov.]
- Scagelonema parasiticum Norris et Wynne, Syesis 1: 139. 1969. [sp. nov.]
- Sphacelaria norrisii Hollenberg, Syesis 2: 163. 1970. [sp. nov.]
- Szczawinskia Funk, Syesis 16: 85. 1984. [gen. nov.]

